

# Lesson Plan

Discipline: Mechanical, Electrical Semester: 2 <sup>nd</sup> , Name of Faculty : Smt . Kumari Jyoti		
<b>Subject:</b> Computer Application	<b>No. of days/ week Class allotted: 4</b>	<b>Effective From Date: 01.02.24</b>
Week	Class Day	Theory
1st	1st	<b>COMPUTER ORGANIZATION</b> Introduction to Computer Evolution of Computers
	2nd	Generation of Computers Classification of Computers
	3rd	Basic Organization of Computer (Functional Block diagram)
	4th	Input Devices, CPU & Output Devices.
2nd	1st	Computer Memory and Classification of Memory
	2nd	<b>COMPUTER SOFTWARE</b> Software concept. System software Application software
	3rd	Overview of Operating System Objectives and Functions of O.S Types of Operating System Batch Processing, Multiprogramming, Time Sharing OS
	4th	Types of Operating System Batch Processing, Multiprogramming, Time Sharing OS
3rd	1st	Features of DOS, Windows and UNIX
	2nd	Programming Languages Compiler, Interpreter
	3rd	Computer Virus Different Types of computer virus Detection and prevention of Virus
	4th	Application of computers in different Domain
4th	1st	<b>COMPUTER NETWORK AND INTERNET</b> Networking concept, Protocol,
	2nd	Connecting Media, Data Transmission mode
	3rd	Network Topologies
	4th	Types of Network
5th	1st	Networking Devices like Hub, Repeater, Switch
	2nd	Networking Devices Bridge, Router, Gateway & NIC
	3rd	Internet Services like E-Mail, WWW, FTP, Chatting, Internet Conferencing, Electronic Newspaper & Online Shopping
	4th	Different types of Internet connectivity and ISP
6th	1st	<b>FILE MANAGEMENT AND DATA PROCESSING</b> Concept of File and Folder
	2nd	File Access and Storage methods Sequential, Direct, ISAM
	3rd	Data Capture
	4th	Data storage
7th	1st	Data Processing and Retrieval
	2nd	<b>PROBLEM SOLVING METHODOLOGY</b> Algorithm
	3rd	Pseudo code and Flowchart

	4th	Generation of Programming Languages
8th	1st	Structured Programming Language
	2nd	Examples of Problem solving through Flowchart
	3rd	<b>OVERVIEW OF C PROGRAMMING LANGUAGE</b> Constants, Variables
	4th	Data types in C
9th	1st	Managing Input and Output operations
	2nd	Operators
	3rd	Operators
	4th	Expressions
10th	1st	Type conversion & Typecasting
	2nd	Decision Control and Looping Statements (If, If-else, If-else-if, Switch, While, Do-while, For, Break, Continue & Goto)
	3rd	Continue
	4th	Continue
11th	1st	Programming Assignments using the above features
	2nd	Programming Assignments using the above features
	3rd	Doubts clearing class
	4th	Class test
12th	1st	<b>ADVANCED FEATURES OF C</b> Functions and Passing Parameters to the Function (Call by Value and Call by Reference)
	2nd	Passing Parameters to the Function Call by Value
	3rd	Passing Parameters to the Function Call by Reference
	4th	Assignments using the above features
13th	1st	Scope of Variables and Storage Classes
	2nd	Recursion Function
	3rd	Types of Recursion.
	4th	One Dimensional Array and Multidimensional Array
14th	1st	One Dimensional Array and Multidimensional Array
	2nd	String Operations
	3rd	Pointers Pointer Expression and Pointer Arithmetic Programming
	4th	Assignments using the above features
15th	1st	Assignments using the above features
	2nd	Doubts clearing class
	3rd	Doubts clearing class
	4th	Class test

**BOOK REFERENCE:**

1. Computer Application by Kalyani Publisher , Computer Fundamentals by E. Balaguruswamy